



Micro Commercial Components



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BAV100 THRU BAV103

Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

- Moisture Sensitivity Level 1
- Silicon Epitaxial Planar Diodes
- These diodes are also available in other case styles including: the DO-35 case
 with the type designations BAV19 to BAV21, the SOD-123 case with the type
 designations BAV19W to BAV21W, the SOT-23 case with the type designations
 BAS19 to BAS21, and the SOD-323 case with type designations BAV19WS to
 BAV21WS.

Small Signal Diodes

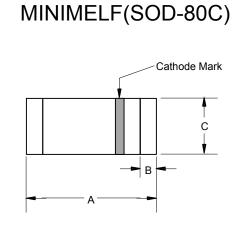
Maximum Ratings Continuous Reverse Voltage **BAV100** 50V **BAV101** V_R 100V $T_A=25^{\circ}C$ BAV102 150V **BAV103** 200V Repetitive Peak Reverse Voltage **BAV100** 60V **BAV101** 120V $T_A = 25^{\circ}C$ V_{RRM} **BAV102** 200V **BAV103** 250V Forward DC Current 250mA $T_A = 25^{\circ}C^{(1)}$ I_{F} Rectified Current (Average) f>50Hz, 200mA Half Wave Rectification I_(FAV) $T_A = 25^{\circ}C$ with Resist. Load Repetitive Peak Forward 625mA $f>50Hz, T_A=25^{\circ}C^{(1)}$ I_{FRM} Current Surge Forward Current I_{FSM} 1.0A T<1s, Tj =25°C $T_A = 25^{\circ}C$ Power Dissipation P_{TOT} 400mW Thermal Resistance T_A 375°C/W Junction to Ambient Air(2) Operating and Stora ge -55 to +150°C T_S, T_{STG} temperature Range

Note: (1) Valid provided that electrodes are kept at ambient temperature	
Flectrical Characteristics @ 25°C Unless Otherwise Speci	f

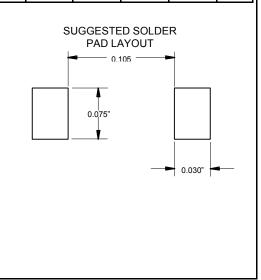
Maximum Forward Voltage $I_F = 100 \text{mA}$ $I_F = 200 \text{mA}$	V_{F}	1.00V 1.25V	T _A =25 ^o C
Maximum Leakage current		400-4	
BAV100 BAV100		100nA	V _R =50V V _R =50V, Tj=100 ^O C
		15µA	
BAV101	_	100nA	V _R =100V
BAV101	I _R	15µA	V _R =100V, Tj=100 ^O C
BAV102		100nA	V _R =150V
BAV102		15µA	V _R =150V, Tj=100 ^O C
BAV103		100nA	V _R =200V
BAV103		15µA	V _R =200V, Tj=100 ⁰ C
Typital Capacitance	C_{TOT}	1.5pF	V _R =0V, f=1.0MHz
Maximum Reverse recovery time	t _{rr}	50ns	I _F =30mA, k=30mA I _r =3.0mA, R _I =100 OHM
Typical Dynamic Forward Resistance	R _F	5.0 OHM	I _F =10mA

Notes:1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

2. Valid provided that electrodes are kept at ambient temperature



DIMENSION							
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX			
Α	.130	.146	3.30	3.70			
В	.008	.016	0.20	0.40			
С	.055	.059	1.40	1.50			

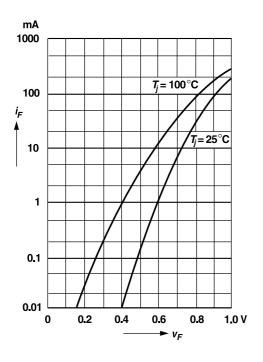


BAV100 thru BAV103



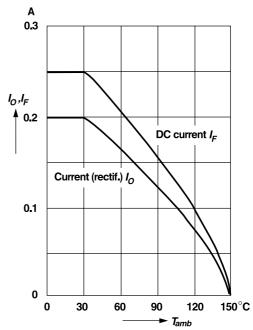
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Forward characteristics

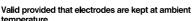


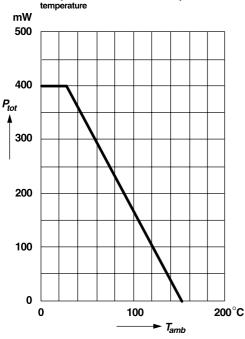
Admissible forward current versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

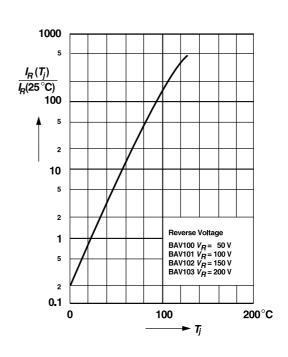


Admissible power dissipation versus ambient temperature





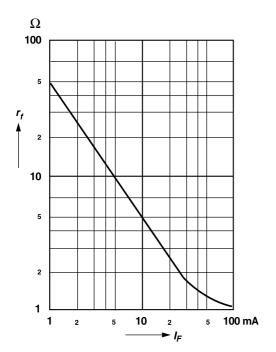
Leakage current versus junction temperature



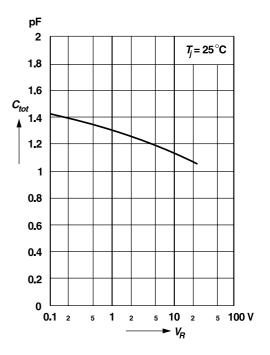
BAV100 thru BAV103



Dynamic forward resistance versus forward current



Capacitance versus reverse voltage





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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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Authorized Distributor

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Micro Commercial Components (MCC):

BAV102-TP BAV103-TP